

Ronan

FILE COPY

BIOTECHNOLOGY
SYSTEMS
BRANCH

#13

RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number 09/005,318B

RECEIVED

JUL 12 2000

TECH CENTER 1600/2900

Source 1646

Date Processed by STIC 6/23/2000

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) **INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY**
or,
- 2) **TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

**FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER,
703-308-4212.**

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO).

Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:
<http://www.uspto.gov/web/offices/pac/checker>

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318B

DATE: 06/23/2000
TIME: 06:20:30

Input Set : A:\401c1.app
Output Set: N:\CRF3\06222000\I005318B.raw

Does Not Comply
Corrected Diskette Needed

SEQUENCE LISTING

- 4 (1) GENERAL INFORMATION:
C--> 6 (i) APPLICANT: Hein, Mich B.
7 Hiatt, Andrew C.
8 Fitchen, John H.
10 (ii) TITLE OF INVENTION: NOVEL EPITHELIAL TISSUE TARGETING AGENT
12 (iii) NUMBER OF SEQUENCES: 140
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: SEED IP LAW GROUP PLLC
16 (B) STREET: 6300 Columbia Center, 701 Fifth Avenue
17 (C) CITY: Seattle
18 (D) STATE: Washington
19 (E) COUNTRY: USA
20 (F) ZIP: 98104
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
C--> 28 (vi) CURRENT APPLICATION DATA:
C--> 29 (A) APPLICATION NUMBER: US/09/005,318B
C--> 30 (B) FILING DATE: 09-Jan-1998
31 (C) CLASSIFICATION:
33 (viii) ATTORNEY/AGENT INFORMATION:
34 (A) NAME: Sharkey, Richard G.
35 (B) REGISTRATION NUMBER: 32,629
36 (C) REFERENCE/DOCKET NUMBER: 310098.401C1
38 (ix) TELECOMMUNICATION INFORMATION:
39 (A) TELEPHONE: (206) 622-4900
40 (B) TELEFAX: (206) 682-6031

ERRORRED SEQUENCES

- E--> 472 (2) INFORMATION FOR SEQ ID NO:
459 (i) SEQUENCE CHARACTERISTICS:
475 (A) LENGTH: 286 base pairs
476 (B) TYPE: nucleic acid
477 (C) STRANDEDNESS: single
478 (D) TOPOLOGY: linear
467 (ix) FEATURE:
468 (A) NAME/KEY: CDS
469 (B) LOCATION: 1..282
480 (ix) FEATURE:
481 (A) NAME/KEY: CDS
482 (B) LOCATION: 1..282
E--> 488 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

Delete duplicate material (see back page)

RAW SEQUENCE LISTING DATE: 06/23/2000
 PATENT APPLICATION: US/09/005,318B TIME: 06:20:30

Input Set : A:\401c1.app
 Output Set: N:\CRF3\06222000\I005318B.raw

490 GAT CAG AAG TGC AAG TGT CGT ATT ACT TCT AGA ATC ATC CGT AGC	48
491 Asp Gln Lys Cys Lys Cys Ala Arg Ile Thr Ser Arg Ile Ile Arg Ser	
W--> 492 15 20 25 30	
494 TCA GAG GAC CCA AAT GAA GAT ATA GTC GAA CGT AAC ATC CGT ATC ATC	96
495 Ser Glu Asp Pro Asn Glu Asp Ile Val Glu Arg Asn Ile Arg Ile Ile	
W--> 496 35 40 45	
498 GTC CCA CTG AAT AAC CGG GAG AAT ATC TCA GAT CCT ACA AGT CCG TTG	144
499 Val Pro Leu Asn Asn Arg Glu Asn Ile Ser Asp Pro Thr Ser Pro Leu	
W--> 500 50 55 60	
502 CGC ACA CGC TTC GTA TAC CAC CTG TCA GAT CTG TGT AAG AAG TGT GAT	192
503 Arg Thr Arg Phe Val Tyr His Leu Ser Asp Leu Cys Lys Cys Asp	
W--> 504 65 70 75	
506 CCA ACA GAG GTA GAG CTG GAC AAT CAG ATA GTC ACT GCG ACT CAA AGC	240
507 Pro Thr Glu Val Glu Leu Asp Asn Gln Ile Val Thr Ala Thr Gln Ser	
W--> 508 80 85 90	
510 AAC ATT TGC GAT GAG GAC GCT ACA GAA ACC TGC TAC TGA	282
511 Asn Ile Cys Asp Glu Asp Ser Ala Thr Glu Thr Cys Tyr	
W--> 512 95 100 105	
514 ATTC	286
 E--> 517 (2) INFORMATION FOR SEQ ID NO: 14:	
519 (i) SEQUENCE CHARACTERISTICS:	
520 (A) LENGTH: 105 base pairs	
521 (B) TYPE: nucleic acid	
522 (C) STRANDEDNESS: single	
523 (D) TOPOLOGY: linear	
525 (ix) FEATURE:	
526 (A) NAME/KEY: CDS	
527 (B) LOCATION: 1..105	
533 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:	
535 GAT CTG TGT AAG AAG TGT GAT CCA ACA GAG GTA GAG CTG GAC AAT CAG	48
536 Asp Leu Cys Lys Lys Cys Asp Pro Thr Glu Val Glu Leu Asp Asn Gln	
W--> 537 95 100 105 110	
539 ATA GTC ACT GCG ACT CAA AGC AAC ATT TGC GAT GAG GAC AGC GCT ACA	96
540 Ile Val Thr Ala Thr Gln Ser Asn Ile Cys Asp Glu Asp Ser Ala Thr	
W--> 541 115 120 125	
543 GAA ACC TGC	105
544 Glu Thr Cys	
 E--> 1191 (2) INFORMATION FOR SEQ ID NO: 45:	
1193 (i) SEQUENCE CHARACTERISTICS:	
1194 (A) LENGTH: 16 amino acids	
1195 (B) TYPE: amino acid	
1196 (C) STRANDEDNESS:	
1197 (D) TOPOLOGY: linear	
1203 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 45:	
Ala Ile Gln Asp Pro Arg Leu Phe Ala Glu Glu Lys Ala Val Ala Asp	1
2303 (2) INFORMATION FOR SEQ ID NO: 111:	
2305 (i) SEQUENCE CHARACTERISTICS:	
2306 (A) LENGTH: 30 amino acids	
2307 (B) TYPE: amino acid	

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JUL 12 2000

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*✓ insert hard return so that
 number will be
 under
 amino acid*

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/005,318B

DATE: 06/23/2000
TIME: 06:20:31

Input Set : A:\401c1.app
Output Set: N:\CRF3\06222000\I005318B.raw

2308 (C) STRANDEDNESS:
2309 (D) TOPOLOGY: linear
2314 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:
2316 Val Arg Asp Gln Ala Gln Glu Asn Arg Ala Ser Gly Asp Ala Gly
E--> 2317 1 5 10 15
2319 Ser Ala Asp Gly Gln Ser Arg Ser Ser Ser Lys Val Leu Phe
E--> 2320 16 20 25 30
2322 (2) INFORMATION FOR SEQ ID NO: 112:
2324 (i) SEQUENCE CHARACTERISTICS:
2325 (A) LENGTH: 25 amino acids
2326 (B) TYPE: amino acid
2327 (C) STRANDEDNESS:
2328 (D) TOPOLOGY: linear
2334 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:
2336 Val Pro Ser Thr Pro Pro Thr Pro Ser Pro Ser Thr Pro Pro Thr
E--> 2337 1 5 10 15
2339 Pro Ser Pro Ser Cys Cys His Pro Arg Leu
E--> 2340 16 20 25

← (resubjed amino
acid nos)
fix nos

← (section 4
on Env
ferryay sheet)

VERIFICATION SUMMARY DATE: 06/23/2000
PATENT APPLICATION: US/09/005,318B TIME: 06:20:32

Input Set : A:\401c1.app
Output Set: N:\CRF3\06222000\I005318B.raw

L:6 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:]
L:28 M:220 C: Keyword misspelled or invalid format, [(vi) CURRENT APPLICATION DATA:]
L:29 M:220 C: Keyword misspelled or invalid format, [(A) APPLICATION NUMBER:]
L:30 M:220 C: Keyword misspelled or invalid format, [(B) FILING DATE:]
L:228 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:237 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:433 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:11
L:480 M:201 W: Mandatory field data missing, SeqNo=13, [INFORMATION FOR SEQ ID NO:]
L:480 M:202 E: (16) Value must be an Integer, Data=[]
L:488 M:212 E: (34) Invalid or duplicate Sequence ID Number, Data=[13:]
L:492 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
L:496 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
L:500 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
L:504 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
L:508 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
L:512 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:-1
L:517 M:216 E: (34) Seq.#s missing, 15 thru 13
L:537 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:14
L:541 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:14
L:1148 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:42
L:1152 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:42
L:1205 M:203 E: No. of Seq. differs, LENGTH:Input:16 Found:0 SEQ:45
L:2317 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:111
M:332 Repeated in SeqNo=111
L:2337 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:112
M:332 Repeated in SeqNo=112
L:2486 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
L:2489 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118
L:2640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123
L:2646 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123
L:2649 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:123

STATISTICS SUMMARY DATE: 06/23/2000
PATENT APPLICATION: US/09/005-318B TIME: 06:20:32

Input Set : A:\401cl.app
Output Set: N:\CRF3\06222000\I005318B.raw

Application Serial Number: US/09/005,318B

Application Serial Number
Alpha or Numeric: Alpha

Alpha or Numeric: Alpha
Application Class: 514

Application Class: 314
Application File Date: 01-09-1998

Application File No.
Art. Unit: 1646

Art Unit: 1646
Software Application: PatentIn

Software Application: PatentIn
Total Number of Sequences: 140

Total Number of Sequences: 8

Number of Errors: 8
Number of Warnings: 18

MESSAGE SUMMARY

```
201 W: 1 (Mandatory field data missing)
202 E: 1 ((16) Value must be an Integer)
203 E: 1 (No. of Seq. differs)
212 E: 1 ((34) Invalid or duplicate Sequence ID Number)
216 E: 1 ((34) Seq.#s missing)
220 C: 4 (Keyword misspelled or invalid format)
332 E: 4 ((32) Invalid/Missing Amino Acid Numbering)
341 W: 7 ((46) "" or "Xaa" used)
336 W: 11 (Invalid Amino Acid Number in Coding Region)
```